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Cc: Way, Steven[way.steven@epa.gov]; Petri, Elliott[Elliott.Petri@WestonSolutions.com]; Megan.Burke@respec.com[Megan.Burke@respec.com]
From: Christner, Jan
Sent: Fri 10/9/2015 5:32:54 PM
Subject: GK

Hi, Craig...and Steve if you're still there and not finally taking a break.

Just checking in to see if you need anything in particular that I can help with. A few notes:

- Steve has had me looking at metal concentrations in downstream waters to see if our water treatment variations and site discharges are adversely affecting downstream water quality and I will send you more information on that later today.

- Megan Burke is running 2x/day dissolved copper tests so you have real time data about % removal in the ponds and can make adjustments as needed. From those concentrations and the various flow measurements at the site, we are set to calculate an overall site dissolved copper load that shows the overall impact of the site discharges (load from the ponds plus load from the bypass plus load from the Gladstone ponds). That could help your decisions on how much water goes where and is treated how. I assume that will be moot in a week or so when the longer-term water treatment system is in place. Please let me or Megan know if you'd like to see that information in a different way than % removal in the ponds and overall site D-Cd load.

- It might be wise to collect samples from the site ponds discharge and A72 (at a minimum) at least twice a week and possibly every other day until site conditions stabilize.

- We could also sample the three waterways that feed A72: Cement Creek (CC48), Upper Animas River above Cement Creek (A68), and/or Mineral Creek (M34). My rough calculations show that A68 contributes 17-26% of the cadmium, 2-6% of the copper, 0-5% of the iron, and 14-22% of the zinc to A72. M34 contributes 10-18% of the cadmium, 6-12% of the copper, 35-55% of the iron, and 8-13% of the zinc at A72. Cement Creek contributes 59-72% of the cadmium, 82-92% of the copper, 44-63% of the iron, and 65-78% of the zinc. At least one of the spikes in iron concentrations downstream was attributable to Mineral Creek. Based on plots from USGS, there are additional significant sources of iron in Cement Creek downstream of Gladstone.

Deliberative Process/Ex. 5

- The mine folks should take on downloading the sondes at A72, Bakers Bridge (if it stays in place), and at the site since the Durango river team is going away.

Deliberative Process/Ex. 5

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- I sent a draft reclamation plan last weekend because it was due Monday, but we didn't have the SMP buffer capacity and ABA results for the lime requirement determination. The analysis should be done Monday, Tuesday at the latest. It sounds like Matt can get lime to the site pretty quickly so we should be able to get that going early next week.

- I sent the other materials requirements to Matt and Steve but haven't heard much since then so don't know the status of procurement or when the work can begin. The materials requirements were based on 2 acres of reclamation, but it sounds like Steve wanted to add more area at Gladstone where the waste rock/tailings/treatment solids are being stored. Megan was going to GPS that area today and we will get you the updated material requirements. Let us know if there are other areas of interest.

Let me know if you have questions, need additional information, or if I can help in another way.

Jan

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